

Patent Application
NC 82,637

Listing of the Claims :

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-18 and 23 (canceled)

Claim 19 (previously amended): A thin film or coated material made by thermal spraying and being devoid of splat microstructures greater than several microns thick having a nanostructured material with a particle size of less than 100 nm and containing an oxide selected from the group consisting of alumina, zirconia, yttria, and mixtures thereof.

Claim 20 (previously amended): A multilayer thin film or coated material made by thermal spraying and being devoid of splat microstructures greater than several microns thick having a nanostructured material with a particle size of less than 100 nm and containing an oxide selected from the group consisting of alumina, zirconia, yttria, and mixtures thereof.

Claim 21 (original): The multilayer thin film or coated material of Claim 20, having a nanostructure graded material and a fine scale grading, both compositionally and microstructurally.

Claim 22 (previously presented): The multilayered thin film or coated material of Claim 21, wherein the layers are integrated by graded interfaces rather than abrupt interfaces so as to permit the

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compatibility of multilayered materials.

Claim 24 (original): The multilayered coated material of Claim 21, wherein the grading is microstructural, structural and chemical with continuous interfaces at a fine scale.

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Claim 25 (previously presented): The graded thin film or coated material of Claim 20 having a nanostructured graded material and fine scale grading, both compositionally and microstructurally.
